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PHOTOGRAPHIC INTERPRETATION REPORT



CHRONOLOGY OF ARMS MACHINE AND STEEL PLANT 235 VOTKINSK, USSR

NOVEMBER 1967
COPY 107
5 PAGES

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GROUP 1 EXCLUDED FROM AUTOMATIC DOWNGRADING AND DECLASSIFICATION

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CHRONOLOGY OF ARMS MACHINE AND STEEL PLANT 235, VOTKINSK, USSR

INTRODUCTION

This report is a chronological study, based or photography, of Arms Machine and Steel Plant 235 (BE No which is located near the center of Votkinsk, USSR, at 57-02-40N 053-59-00E (Figure 1). Due to the small scale and poor interpretability of the early coverage of the plant a chronology of the road and rail development within it has not been attempted. All item numbers in this report refer to Table 1 and Figure 2.

Plant 235 has been reported as producing heavy-caliber guns. $\underline{1}/$ Recent identification of possible SCUD missile crates indicates that this plant may be involved in the production of missiles/missile components. The main plant is road and rail served, and it is enclosed by a continuous wall (Figures 2 and 3). The outlying areas of the plant are separately secured. No special security measures are evident,

A road- and rail-served walled storage area (Area 1, Figure 2) containing considerable open storage and several large warehouses is located near the south end of the main walled area of the plant. Outside one of the warehouses (item 21) 10 possible SCUD missile crates are evident which measure approximately 35 by 5 feet as compared to those previously identified within a rail-served walled area (item 69) of the plant and which measure approximately 5 feet. The average measurements of the crates in the 2 areas indicate a small difference in length; however, these measurements are accurate only to plus-or-minus in length and in width and are probably of the same-size objects. The SCUD B missile measures feet in length (without warhead) and is feet in diameter.

Three smaller walled areas (Areas 2, 3, and 4) are located southeast of the main plant area. These areas are rail connected to the main area and apparently are functionally related to the plant. A petroleum storage area which

is not necessarily part of the plant is also located outside the main walled area. Steamlines run from the plant to this area.

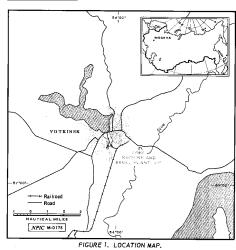
The plant roof cover has increased about 10 percent since it was first observed in late 1961. Large fabrication/assembly buildings (items 68, 70, 72, 76, and 98) constitute the principal construction since that time. As of the date of this report, the total roof cover of the plant is approximately square feet.

HIGHLIGHTS OF CHRONOLOGY

1961

The plant was in existence prior to the earliest

KH-4 coverage of the area. At that time



the plant appeared to be complete and operational, and no new construction activity was evident. Most of the buildings in Area 1 were present, Areas 2 and 4 appeared complete, and Area 3 was nearly complete.

1962

One large fabrication/assembly building (item 72) had been added. 25X1

1963

Coverage of good interpretability of revealed that 1 large and 1 medium-sized fabrication/assembly building (items 70 and 98) had been added. Construction had been started on another large fabrication/assembly building (item 76). Seventeen small buildings were observed which had not been discernible on previous coverage.

1964-1965

No significant changes or additions were observed.

1966

Item 76 (the fabrication/assembly building previously under construction) and 3 small buildings had been completed.

1967

An additional bay on item 68 (a fabrication/assembly building) had been completed, and an additional bay on a shop-type building (item 97) was apparently under construction.

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FIGURE 2. LAYOUT OF ARMS MACHINE AND STEEL PLANT 235, VOTKINSK, USSR.

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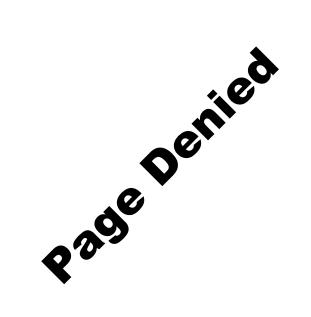
Table 1. Data on Arms Machine and Steel Plant 235 (Hem numbers are keyed to Figure 2)

					(Hem numbers a	те кеуес	sorigue s)					1	
Item No	Function/ Description	Dimensions (ft) L W H	Roof Cover (sq ft)	Date First Observed & Apparently Complete* (unless otherwise noted)	Comments	Item No	Function/ Description	1	Dimensions (ft) L W H	Roof Cover (sq ft)	Date Firs Observed Apparentl Complete (unless otherwise noted)	& ly ,+	Comments
1 2 3 4 5	Warehouse Support bldg Warehouse Support bldg				Items 1-82 comprise Area 1 on Fig 2. A small bldg is alongside. Three small bldgs are nearby.	72 73 74 75 76	Fabrication/assembly bldg Support bldg Shop/fabrication bldg Prob admin/engineering bldg Fabrication/assembly bldg					us)	Bldg was completed by
6 7 8 9 10	Support bldg Support bldg Tanks Warehouse Support bldg Warehouse				Seven tanks are discernible.	77 78 79 80 81	Support bldg U/I structure Guard shack Support bldg Fabrication/assembly bldg					,	
12 18 14 15 16	Warehouse Support bldg with tank storage Warehouse Warehouse Warehouse Warehouse				An attached fenced area contains tankage.	82 83 84 85 86 87	Fabrication/assembly bidg Poss rolling mill Support bidg Support bidg Support bidg Support bidg						Bldg has a high bay.
18 19 20 21	Warehouse Warehouse Warehouse Support bldg				Area around bldg contains considerable open storage.	88 89 90 91 92 93	Support bldg Support bldg Support bldg Support bldg Warehouse Prob steamplant Support bldg						
23 24 25 26 27 28 29 30	support tolg Warehouse Warehouse Support bldg Support bldg Support bldg Support bldg U/I bldg Support bldg U/I bldg Support bldg				A tan is located on west side.	94 95 96 97 98 99	Support bldg U/I bldg Support bldg Shop Fabrication/assembly bldg U/I structure Support bldg					its)	As additional bay on south side approx wid was U/C on
31 32 33 34	Tanks Warehouse Transformer yard Petroleum storage area				Other small structures (not shown in Fig 3) are located in area. Probably serves Plant 235. Not necessarily related to Plant 235, though Plant 235	101 102 103 104 105	Possible forge Support bldg Support bldg Poss beat treatment bldg Fuel tanks						Three tanks are discernible.
35 36 37 38 39 40 41 42 43 44 45 46	Prob receiving/shipping facility Wareboase Guard shack Guard shack Support bldg Wareboase Wareboase Wareboase Guard shack Support bldg Prob admin bldg/gutebouse Wareboase Support bldg Sapport bldg Sapport bldg				steamlines do serve this facility. Hons 33-43 comprise Area 4 on Fig 2. Items 44-50 comprise Area 3 on Fig 2.	106 107 108 109 110 111 112 113 114 115 116 117	Support bldg Support bldg Support bldg Support bldg Fabrication/assembly bldg Fabrication/assembly bldg Support bldg Gate house LUT bldg Support bldg UT bldg UT bldg Fabrication/assembly bldg Fabrication/assembly bldg Fabrication/assembly bldg						
47 48 49 50 51 52 53	Support bldg Support bldg Support bldg Warehouse Support bldg Support bldg Support bldg				Items 51-56 comprise Area 2 on Fig 2.	119 120 121 122 123 124 125	Fabrication/assembly bldg Pumphouse U/I bldg Poss fabrication bldg U/I bldg Prob shop Poss foundry						
54 55 56 57 58 59	Support bldg Warehouse Support bldg Gatehouse Prob assembly bldg Support bldg				Rail served	126 127 128 129 130 131	Prob support bldg Prob support bldg Prob admin bldg Prob fabrication bldg Overhead crane Poss foundry						
60 61 62 63 64 65	Support bldg Poss auxiliary thermal powerplant Support bldg Fabrication/assembly bldg Prob assembly bldg Tank					132 133 134 135 136 137	Support bldg Warchouse Support bldg Support bldg Support bldg						
66 67 68	U/I bldg E/I bldg Fabrication/assembly bldg Walled storage area				An additional bay was completed between	138 139 140 141 142	Poss foundry Gatehouse Support bldg Prob storage bldg Prob storage bldg						
70 71	Fabrication/assembly bldg Support bldg				A small bldg is nearby.	143 144	Prob storage bldg Prob storage bldg						

^{*}The date first observed is the first date the item was recognizable as a structure. The date apparently complete is the first date the structure outwardly appeared complete. This date may not be related to the date the structure was operational.

Approximate.

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	REFERENCES
MAPS OR CHAI	
ACIC series	s, scale 1:200,000
OCUMENT	
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REQUIREMENT	
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